

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

In the Claims:

1. (currently amended) In an imprint lithography system, a method of forming a material layer on a substrate, said method comprising:
 - forming a plurality of flowable regions of said material on said substrate;
 - contacting said material in said flowable regions with a plurality of physically separate imprint lithography molds disposed on a template, each imprint lithography mold having three dimensional relief patterns ~~disposed on a template~~ thereby resulting in causing said material in each of said flowable regions ~~conforming to conform to a~~ corresponding one of said three dimensional relief patterns;
 - inducing localized sections of flexing said template to flex by urging said localized sections of said template to further engage each of said imprint lithography molds with said material in said flowable regions so said imprint lithography molds conform to a topography of said substrate, wherein flexing of said template at a first one of said localized sections is different from flexing of said template at a second one of said localized sections; and
 - solidifying said material in said plurality of flowable regions so that each of said plurality of flowable regions ~~maintain~~ maintains three dimensional patterns conforming to a corresponding one of said three dimensional relief patterns of said plurality of imprint lithography molds, wherein an area surrounding each imprint lithography mold has features that facilitate said flexing of said localized sections of said template.
2. (currently amended) The method as recited in claim 1, wherein forming further includes forming said plurality of flowable regions ~~as an integer multiple of~~ to have a one to one correspondence to said plurality of imprint lithography molds.

1 3. (currently amended) The method as recited in claim 1, wherein said material is
2 confined within a defined area of said flowable region when imprinted with one of the
3 three dimensional patterns further including spreading a material in said plurality of
4 flowable regions over said substrate while confining said material associated with each of
5 said plurality of flowable regions to an area.

4. (cancelled)

1 5. (original) The method as recited in claim 1, wherein solidifying further includes
2 applying electromagnetic activation energy to said plurality of flowable regions.

1 6. (previously presented) The method as recited in claim 1, wherein contacting
2 further includes flexing said template at a region between adjacent molds of said plurality
3 of imprint lithography molds.

1 7. (currently amended) ~~The method as recited in claim 1,~~ In an imprint lithography
2 system, a method of forming a layer on a substrate, said method comprising:

3 forming a plurality of flowable regions on said substrate;

4 contacting said flowable regions with a plurality of physically separate imprint
5 lithography molds having three dimensional relief patterns disposed on a template
6 thereby resulting in said flowable regions conforming to said three dimensional relief
7 patterns;

8 flexing said template to conform to a topography of said substrate; and

9 solidifying said plurality of flowable regions so that said plurality of flowable
10 regions maintain three dimensional patterns conforming to said three dimensional relief
11 patterns of said plurality of imprint lithography molds, wherein forming further includes
12 forming said plurality of flowable regions concurrently.

1 8. (original) The method as recited in claim 1, wherein forming further includes
2 forming each of said plurality of flowable regions to be spaced apart from adjacent
3 flowable regions of said plurality of flowable regions.

1 9. (currently amended) In an imprint lithography system, a method of forming a
2 layer on an imprint lithography substrate, said method comprising:
3 forming a plurality of flowable regions on said imprint lithography substrate;
4 providing each of said plurality of flowable regions with a surface having a
5 desired three dimensional shape contacting said plurality of flowable regions with a
6 plurality of imprint lithography molds having three dimensional relief patterns thereby
7 resulting in said flowable regions conforming to the three dimensional relief patterns; and
8 solidifying said plurality of flowable regions so that said plurality of flowable
9 regions maintain three dimensional patterns conforming to the three dimensional relief
10 patterns of said plurality of imprint lithography molds,
11 wherein contacting further includes flexing said template to conform to a
12 topography of said imprint lithography substrate, wherein contacting further includes
13 flexing said template at a region between adjacent molds of said plurality of imprint
14 lithography molds.

10. (cancelled)

1 11. (currently amended) The method as recited in claim [[10]] 9, wherein forming
2 further includes forming said plurality of flowable regions ~~as an integer multiple of to~~
3 have a one to one correspondence to said plurality of imprint lithography molds.

12. (cancelled)

1 13. (original) The method as recited in claim 9, wherein solidifying further includes
2 applying electromagnetic activation energy to said plurality of flowable regions.

14. (cancelled)

1 15. (currently amended) The method as recited in claim 9, wherein said material is
2 confined within a defined area of said flowable region when imprinted with one of the
3 three dimensional patterns further including spreading a material in said plurality of
4 flowable regions over said substrate while confining said material associated with each of
5 said plurality of flowable regions to an area.

1 16. (currently amended) A method of forming a layer on a substrate, said method
2 comprising:
3 forming a plurality of flowable regions on said substrate;
4 spreading a material in said plurality of flowable regions over said substrate while
5 confining said material associated with each of said plurality of flowable regions to an
6 area;
7 contacting said flowable regions with a plurality of imprint lithography molds
8 disposed on a template; and
9 solidifying said plurality of flowable regions,
10 wherein contacting further includes flexing said template to conform to a
11 topography of said substrate, wherein contacting further includes flexing said template at
12 a region between adjacent molds of said plurality of imprint lithography molds.

1 17. (currently amended) The method as recited in claim 16, wherein forming further
2 includes forming said plurality of flowable regions as an integer multiple of to have a one
3 to one correspondence to said plurality of imprint lithography molds.

18. (cancelled)

1 19. (original) The method as recited in claim 16, wherein solidifying further includes
2 applying electromagnetic activation energy to said plurality of flowable regions.

20-23. (cancelled)

1 24. (currently amended) ~~In an imprint lithography system, a~~ The method as recited in
2 claim 1 of forming a layer on a substrate, said method comprising:

3 ~~forming a plurality of flowable regions on said substrate;~~
4 ~~contacting said flowable regions with a plurality of imprint lithography molds~~
5 ~~disposed on a template; and~~
6 ~~solidifying said plurality of flowable regions,~~
7 wherein subsequent to the solidifying step, said substrate is populated by a
8 plurality of physically separated imprinted layers corresponding to the plurality of
9 flowable regions.

1 25. (currently amended) ~~In an imprint lithography system, a method of forming a layer~~
2 ~~on an imprint lithography substrate, said~~ The method as recited in claim 9 ~~comprising:~~

3 ~~forming a plurality of flowable regions on a surface of said imprint lithography~~
4 ~~substrate;~~
5 ~~providing each of said plurality of flowable regions with a surface having a~~
6 ~~desired shape; and~~
7 ~~solidifying said plurality of flowable regions,~~
8 wherein subsequent to the solidifying step, said substrate is populated by a
9 plurality of physically separated imprinted layers corresponding to the plurality of
10 flowable regions.

1 26. (currently amended) ~~A method of forming a layer on a substrate, said~~ The method
2 as recited in claim 16 ~~comprising:~~

3 ~~forming a plurality of flowable regions on said substrate;~~
4 ~~spreading a material in said plurality of flowable regions over said substrate while~~
5 ~~confining said material associated with each of said plurality of flowable regions to an~~
6 ~~area;~~
7 ~~contacting said flowable regions with a plurality of imprint lithography molds~~
8 ~~disposed on a template; and~~

9 ~~solidifying said plurality of flowable regions;~~
10 wherein subsequent to the solidifying step, said substrate is populated by a
11 plurality of physically separated imprinted layers corresponding to the plurality of
12 flowable regions.

1 27. (previously presented) The method as recited in claim 1, wherein the plurality of
2 flowable regions do not include printing ink.

1 28. (previously presented) The method as recited in claim 9, wherein the plurality of
2 flowable regions do not include printing ink.

1 29. (previously presented) The method as recited in claim 16, wherein the plurality of
2 flowable regions do not include printing ink